

Alekha Rao

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Education

Tufts University

Medford, MA. USA

Bachelors of Science in Engineering: Computer Science

2026

Minors in Mathematics and Economics

GPA: 3.81/4

Relevant Coursework: Software Engineering, Intro to Machine Learning, Algorithms, Machine Structures and Assembly Language Programming, Data Structures, Computer Science in C++, Web Programming, Reinforcement Learning

Experience

Software Engineering Intern

London, United Kingdom

Millenium

June 2025 - Present

- Working on the Fixed Income and Risk Management team to develop trading infrastructure and monitoring tools.
- Automating workflows in AWS and contributing to enhancements in electronic trading systems.
- Performing dynamic coding and QA testing to enhance firm-wide trading systems.
- Collaborating with cross-functional teams to understand and improve risk and operations processes

Machine Learning Fellow

Cambridge, MA

Break Through Tech MIT

May 2025 - Present

- Selected for Break Through Tech AI at MIT, a 12-month program focused on applied machine learning and AI.
- Completing technical training and collaborating with industry partners on real-world AI projects.
- Receiving mentorship and career coaching to support growth in data science and AI.

Software Developer

Medford, MA

Tufts JumboCode

September 2024 - May 2025

- Collaborated with a team of 10 to develop and launch a web application using React, Next.js, and TypeScript, with MongoDB for backend support.
- Helped develop a platform that empowers college students facing emotional or financial hardship by providing tools to request and receive meaningful support.

Research Assistant at Human Interaction Lab

Medford, MA

Tufts University

September 2024 - December 2024

- Contributed to Gailbot, a transcription API for generating Jeffersonian transcriptions with support for marking paralinguistic features in audio.
- Built a React-based web interface to expand user access, incorporating AWS EC2 for deployment and SQL for relational database management.

Artificial Intelligence Engineering Intern

Bangalore, India

BLP Industry.AI

June 2024 - August 2024

- Built AI-powered solutions addressing key challenges in the manufacturing industry.
- Developed a workplace safety system using Python, OpenCV, and YOLO object detection.
- Created a custom image dataset for model training using annotation tools such as Labellmg.

Technology Consulting Intern

Singapore

Ernst & Young

June 2023 - August 2023

- Revamped company website using newly developed skills in UX research and SEO.
- Supported development and governance of an AI HR chatbot using generative AI and machine learning on the Data & Analytics team.
- Contributed insights in client meetings and strengthened relationships with key partners, including the Infocomm Media Development Authority of Singapore.

Skills

Technical Development Skills: Python (NumPy, Pandas, Matplotlib, Seaborn, scikit-learn), C, C++, Javascript, Typescript, HTML, CSS, PHP, React, MySQL, MongoDB, Git, Vercel

Other Technical Skills: Microsoft Office (Word, Powerpoint, Excel)

Languages: Proficient in Mandarin

Other: Club Water Polo (Captain, 2023 North Atlantic Division Second Team All League)